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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

02/06/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

WILLS, LAWRENCE E

ART UNIT PAPER NUMBER

2625 DATE MAILED: 02/06/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMAT	

10/722,452 11/28/2003 Masahiko Kubo 117861 8268

TITLE OF INVENTION: COLOR IMAGE PROCESSING METHOD, COLOR IMAGE PROCESSING APPARATUS, COLOR IMAGE PROCESSING PROGRAM, AND RECORD MEDIUM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/06/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further correspondence including the Patent, advance indicated unless corrected below or directed otherwise in Block 1, by maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address the block 1 for address the block 1 for any change of address the block 1 for address the block 1 for any change of address the block 1 for addr			Note Fee(pape	e: A certificate of mail s) Transmittal. This cer	ing can only be used for tificate cannot be used for, such as an assignme	rate "FEE ADDRESS" for or domestic mailings of the or any other accompanying nt or formal drawing, must
25944	7590 02/06/	/2009	Have		naming of transmission. In the of Mailing or Trans	mission
OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850			I her State addr trans	eby certify that this Fe es Postal Service with se essed to the Mail Sto	e(s) Transmittal is being sufficient postage for first p ISSUE FEE address 571) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	AT	TORNEY DOCKET NO.	CONFIRMATION NO.
10/722,452	11/28/2003		Masahiko Kubo	· · · · · · · · · · · · · · · · · · ·	117861	8268
TITLE OF INVENTION PROGRAM, AND RECO		OCESSING METHOD, (COLOR IMAGE PROCES	SSING APPARATUS,	COLOR IMAGE PRO	CESSING
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FER	E TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/06/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
WILLS, LAV	WRENCE E	2625	358-515000	•		
 Change of correspondence address or indication of "Fee Address" (3' CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIC	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE	fied below, no assignee letion of this form is NO	T a substitute for filing an (B) RESIDENCE: (CITY	ntent. If an assignee is assignment. and STATE OR COUL	NTRY)	ocument has been filed for
Please check the appropri	ate assignee category or	categories (will not be pr	rinted on the patent):	Individual — Corpor	ation or other private gro	oup entity Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 			
**	s SMALL ENTITY statu	s. See 37 CFR 1.27.	b. Applicant is no long	=		FR 1.27(g)(2). ne assignee or other party in
interest as shown by the r	ecords of the United Star	tes Patent and Trademark	office.	ic applicant; a registere	u autorney of agent; of th	ic assignee of other party in
Authorized Signature			Date			
Typed or printed name			-			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	iality is governed by 35 lapplication form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indive e Chief Information Office COMPLETED FORMS TO	etain a benefit by the puimated to take 12 minuidual case. Any commer, U.S. Patent and Trad THIS ADDRESS. SE	ablic which is to file (and tes to complete, includir ents on the amount of the emark Office, U.S. Dep ND TO: Commissioner	by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,452	11/28/2003	Masahiko Kubo	117861	8268
25944 7590 02/06/2009			EXAM	INER
OLIFF & BERR	IDGE, PLC	WILLS, LA	WRENCE E	
P.O. BOX 320850			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22320-4850			2625	
			DATE MAILED: 02/06/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1060 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1060 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/722,452	KUBO, MASAHIKO	
Notice of Allowability	Examiner	Art Unit	
	LAWRENCE E. WILLS	2625	
	LAWINLINGE E. WILLS	2023	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED or other appropriate comr GHTS . This application is	in this application. If not included nunication will be mailed in due course. THIS	
1. \boxtimes This communication is responsive to <u>amendment filed Dec</u>	<u>ember 22, 2008</u> .		
2. ☑ The allowed claim(s) is/are <u>1-19</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 	.,,) or (f).	
□ Certified copies of the priority documents have		ion No	
3. ☐ Copies of the certified copies of the priority do			
International Bureau (PCT Rule 17.2(a)).	samente nave been receiv	od in the hational stage apphoation from the	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Notice of	nformal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No	./Mail Date s Amendment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner	s Statement of Reasons for Allowance	
of Biological Material	9. 🔲 Other	<u></u> .	
	/King Y. Poor	1	
	Supervisory P	atent Examiner, Art Unit 2625	

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Art Unit: 2625

DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance: Independent claims 1, 9, 17, 18, and 19 identify the unique distinct feature of:

"A color image processing method for converting a first color signal including three variables into a second color signal including N variables, where N is an integer, which is not smaller than five, the second color signal to be output to an image forming device which executes a print process with N colors, the color image processing method comprising: a first conversion of determining (N-3) variables of the second color signal from the first color signal; a second conversion of determining the remaining three variables of the second color signal on the basis of the determined (N-3) variables of the second color signal and the three variables of the first color signal so that the second color signal is colorimetrically equal to the first color signal; and outputting, as the second color signal, the determined (N-3) variables and the determined remaining three variables to the image forming device, wherein the first conversion of determining determines the (N-3) variables before the remaining three variables of the second color signal are determined, the (N-3) variables being determined on the basis of a UCR ratio of each of the (N-3) variables and a maximum value of each of the (N-3) variables, such that a color represented by a combination of the (Nvariables is within a color gamut of the image forming device."

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The closest prior art Velde'438 and Mahy'195 teach separating an input color defined in a trajectory space into colorants in a color space and using a Neugebauer equation to determine the most stable solution for 3-ink processes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAWRENCE E. WILLS whose telephone number is (571)270-3145. The examiner can normally be reached on Monday-Friday 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on 571-272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/King Y. Poon/ Supervisory Patent Examiner, Art Unit 2625

LEW February 2, 2009